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Docket No. UF-332CXC1
Serial No 10/627,831Remarks

Claims 1-13 are pending in the subject application. By this Amendment, Applicants have canceled claims 1-13 and added new claims 14-25. Support for the new claims can be found throughout the subject specification and in the claims as originally filed and that no new matter has been introduced. Entry and consideration of the amendments presented herein is respectfully requested. Accordingly, claims 14-25 are currently before the Examiner. Favorable consideration of the pending claims is respectfully requested.

As an initial matter, Applicants wish to thank the Examiner for careful review of the claims and for identifying typographical errors. These typographical errors have been corrected in new claims 14-25.

The disclosure is objected to under 37 CFR 1.75(d)(1) as failing to provide proper antecedent basis for the claims. Applicants have amended the disclosure to set forth the matter as disclosed in original claims 1-13 (see paragraphs 14.1 through 14.5).

Additionally, paragraph 20 has been amended to correct an obvious typographical error. The starting reagents used in the methods of the subject invention are unsaturated compounds, including aliphatic or aromatic alkenes, alkynes, cyclohexenes or cyclohexadienes. Example 3 (paragraph 20) has been amended to correct the IUPAC name of the reagent to an unsaturated compound, 4,5-dichloro-1-cyclohexene. Support for this amendment is found not only throughout the specification but also in paragraph 21, where the yield of final product from the 4,5-dichloro-1-cyclohexene starting material is calculated. Applicants respectfully request entry of amended paragraph 20.

Claims 1-13 are rejected under 35 USC §112, second paragraph, as being indefinite. Claims 1-13 have been canceled rendering this aspect of the rejection moot. However, in order to expedite prosecution, Applicants submit new claims 14-25 and aver that the claims as now presented particularly point out and distinctly claim the subject matter that Applicants regard as the invention.

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Claims 14-25 are directed to methods of preparing organic (aliphatic and aromatic) compounds having pentafluorosulfanyl substituents. Support for preparing organic compounds is found throughout the application and specifically in paragraphs 7-11.

One component of the solution includes one or more organic substituted or unsubstituted compounds as disclosed in paragraph 11. As known in the art, substituted compounds can include those with mono-, di-, tri- and tetra- substitutions. Applicants submit that new claims 14-25 pertain to making pentafluorosulfanyl substituted organic compounds as disclosed in the specification, for example, in paragraph 11, and that such compounds are produced by reacting aliphatic or cyclohexadiene compounds, one or more initiators, and SF₅Cl in a solution.

As used within the specification and paragraph 12, the terms "catalyst" and "initiator" are used interchangeably to describe one reaction component. As used in new claim 14, the term initiator is used to claim this element.

New claims 16 and 17 are directed to methods of producing a pentafluorosulfanyl aromatic compound. As disclosed in Example 2, when the compounds are cyclohexene, substituted cyclohexene, cyclohexadiene, or substituted cyclohexadiene, an additional elimination or oxidative step advantageously produces an aromatic compound bearing a pentafluorosulfanyl substituent. Accordingly, Applicants submit that new claims 16 and 17 are directed to the claimed invention, wherein the method produces a pentafluorosulfanyl substituted aromatic compound.

Thus, Applicants submit that the claims as now presented particularly point out the claimed invention. Accordingly, reconsideration and withdrawal of the rejection under 35 USC §112, second paragraph, is respectfully requested.

It should be understood that the amendments presented herein have been made solely to expedite prosecution of the subject application to completion and should not be construed as an indication of Applicants' agreement with or acquiescence in the Examiner's position. Applicants

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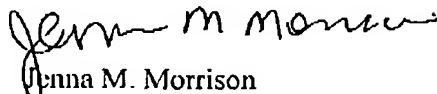
expressly reserve the right to pursue the invention(s) disclosed in the subject application, including any subject matter canceled or not pursued during prosecution of the subject application, in a related application.

In view of the foregoing remarks and amendments to the claims, Applicants believe that the currently pending claims are in condition for allowance, and such action is respectfully requested.

The Commissioner is hereby authorized to charge any fees under 37 CFR §§1.16 or 1.17 as required by this paper to Deposit Account No. 19-0065.

Applicants invite the Examiner to call the undersigned if clarification is needed on any of this response, or if the Examiner believes a telephonic interview would expedite the prosecution of the subject application to completion.

Respectfully submitted,



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